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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

06/23/2010

02/24/2009

EXAMINER HO. ANTHONY

9620

ARTHNIT PAPER NUMBER 2815

DATE MAILED: 06/23/2010

071956.0113

Manu J Teiwani Baker Botts 30 Rockefeller Plaza New York, NY 10112

10/585.215

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. Ansear Werner

TITLE OF INVENTION: USE OF A METAL COMPLEX AS AN N-DOPANT FOR AN ORGANIC SEMICONDUCTING MATRIX MATERIAL ORGANIC OF SEMICONDUCTING MATERIAL AND ELECTRONIC COMPONENT, AND ALSO A DOPANT AND LIGAND AND PROCESS FOR PRODUCING SAME

APPLN, TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$1810 09/23/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further e indicated unless correcte maintenance fee notificat	form should be used f correspondence includir ad below or directed oth	or transmitting the IS og the Patent, advance nerwise in Block 1, by	SUE FEE and PUBLICAT orders and notification of r (a) specifying a new corre	ION FEE (if requir maintenance fees wi spondence address;	red). Blo ill be ma and/or (scks 1 through 5 sh ailed to the current b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDE	s) Not Fee pap	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
Manu J Tejwan Baker Botts 30 Rockefeller P	I be	Law is town (curriage or instance) or transmission. Levelby criticate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
New York, NY 1	.0112						(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	TOR ATT		NEY DOCKET NO.	CONFIRMATION NO.
10/585,215	02/24/2009		Ansgar Werner		071956.0113		9620
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	09/23/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
HO, AN	THONY	2815	257-040000	•			
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address (or Change of Correspondence Address from PIO/SBI/22) lattached. The Address Find Listached. The Address Indication (or "Fee Address" Indication from PIO/SBI/47 lattached. Use of a Cincioner Number is required.			2. For printing on the paster front page, list (1) the annes of up to 3 registered patent attorneys or agents OR, alternatively. (2) the turne of a single firm thaving as a member a registered attorney or agenth and the names of up to 2 registered patent attorneys or agents. If no name is 3 listed, no name will be printed.				
PLEASE NOTE: Unle recordation as set forth (A) NAME OF ASSIC	ess an assignee is ident n in 37 CFR 3.11. Comp BNEE	ified below, no assign pletion of this form is N	N THE PATENT (print or type data will appear on the proof a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assigne assignment. and STATE OR Co	OUNTR	Y)	_
Please check the appropri	ate assignee category or	categories (will not be	printed on the patent):	Individual	rporation	or other private gro	up entity Government
Advance Order - #	o small entity discount p	b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) \[\begin{array}{l} \text{A check is enclosed.} \\ \begin{array}{l} \text{P alyment by credit card. Form PTO-2038 is attached.} \\ \begin{array}{l} \text{D precetor is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).} \end{array}					
	SMALL ENTITY state	as. See 37 CFR 1.27.	b. Applicant is no lon				
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) will not be accep ites Patent and Tradema	ted from anyone other than t ark Office.	he applicant; a regis	tered att	orney or agent; or th	e assignee or other party in
Authorized Signature			Date				
Typed or printed name				Registration No.			
This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	CFR 1.311. The information of U.S.C. 122 and 37 CF USPTO. Time will varden, should be sent to D NOT SEND FEES OF	tion is required to obtain or r R 1.14. This collection is est try depending upon the indiv the Chief Information Office R COMPLETED FORMS To	retain a benefit by the timated to take 12 m ridual case. Any cor- er, U.S. Patent and 1 D THIS ADDRESS.	ne public ninutes to nments fradema SEND	which is to file (and o complete, includin on the amount of tir rk Office, U.S. Depa TO: Commissioner i	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/585,215	02/24/2009	Ansgar Werner	071956.0113	9620	
75	90 06/23/2010		EXAM	UNER	
Manu J Tejwani			HO, ANTHONY		
Baker Botts			ART UNIT	PAPER NUMBER	
30 Rockefeller Plaz New York, NY 101			2815 DATE MAILED: 06/23/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/585,215	WERNER ET AL.	
Examiner	Art Unit	
ANTHONY HO	2015	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to response filed May 17, 2010.
- The allowed claim(s) is/are 35,37 and 39-88.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date See Continuation Sheet
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other _____.

 $Continuation \ of \ Attachment (s) \ 3. \ Information \ Disclosure \ Statements \ (PTO/SB/08), \ Paper \ No. / Mail \ Date: \ 10/17/2006, \ 3/31/2010.$

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DETAILED ACTION

Election/Restrictions

 Applicant's election without traverse of Group V, clams 35-43, in the reply filed on May 17, 2010 is acknowledged.

- Accordingly, claims 1-34 are withdrawn from further consideration pursuant to 37
 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable
 generic or linking claim. Election was made without traverse in the reply filed on May
 17, 2010.
- This application is in condition for allowance except for the presence of claims 1-34 directed to invention non-elected without traverse. Accordingly, claims 1-35 have been cancelled.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which
papers have been placed of record in the file.

Information Disclosure Statement

5. The information disclosure statement (IDS) submitted on October 17, 2006 was filed after the mailing date of the instant application on June 30, 2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

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6. The information disclosure statement (IDS) submitted on March 31, 2010 was filed after the mailing date of the instant application on June 30, 2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

EXAMINER'S AMENDMENT

7. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 1-34 (cancelled).

Allowable Subject Matter

- Claims 35, 37, and 39-88 are allowed.
- 9. The following is an examiner's statement of reasons for allowance: The prior arts of record do not disclose or suggest at least the limitations of "a metal complex for doping an organic semiconducting matrix material having the structure selected from:

 Type 65a...Type 65b...Type 65c...Type 65d" as recited in claim 35, "a process for preparing a dopant, comprising the steps of (b) isolating the dopant product obtained after reacting and drying, the ligand being selected from: Type 65a...Type 65b...Type 65c...Type 65d" as recited in claim 43, "a process for doping an organic semi-

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conducting matrix material, wherein the matrix material's electrical characteristics are altered, comprising the following steps: (a) combining with an organic semi-conducting matrix material, an effective amount of an n-dopant, wherein the n-dopant is a neutral electron-rich metal complex of formula: Type 65a...Type 65b...Type 65c...Type 65d" as recited in claim 65, and "an electronic component comprising an electronically functionally effective region, wherein the electronically effective region comprises one or more neutral metal complexes wherein the metal complex has a structure selected from: Type 65a...Type 65b...Type 65c...Type 65d" as recited in claim 75.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 11. a. Sacconi et al (US Patent 4,639,506)
- b. Dufour et al, "Complexation of 7-azaindole by the methylmercury(II) cation,"
 Canadian Journal of Chemistry (1992), 70(12), pp. 2914-2921

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY HO whose telephone number is (571)270-1432. The examiner can normally be reached on M-F: 1:30PM-10:00PM EST.

Art Unit: 2815

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. H./ Examiner, Art Unit 2815 /Kenneth A Parker/ Supervisory Patent Examiner, Art Unit 2815